



CONSTRUCTION EQUIPMENT

VOLVO A40G 352921 - DIESEL ENGINE



Sample No: VCP434286
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP434286	VCP336670	---	---
Sample Date	31 Oct 2023	19 Dec 2021	---	---
Machine Hours	4224	497	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	▲ 10.5	---	---
Base Number (BN)	mg KOH/g	█ 7.8	█ 5.3	---	---
Oxidation (PA)	%	80	63	---	---



CONTAMINATION

Soot %	%	█ 0.4	█ 0.2	---	---
Nitration (PA)	%	95	91	---	---
Sulfation (PA)	%	63	60	---	---
Glycol	%	● 0.10	NEG	---	---
Fuel	%	<1.0	█ 0.2	---	---
Silicon	ppm	█ 15	█ 32	---	---
Sodium	ppm	▲ 1083	█ 2	---	---
Potassium	ppm	▲ 258	█ 4	---	---



WEAR METALS

Iron	ppm	█ 11	█ 19	---	---
Copper	ppm	█ 9	▲ 183	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ <1	█ 5	---	---
Aluminum	ppm	█ 2	█ <1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	111	█ 99	---	---
Nickel	ppm	█ 4	█ 2	---	---
Titanium	ppm	0	█ <1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1550	█ 2651	---	---
Magnesium	ppm	█ 533	█ 33	---	---
Zinc	ppm	█ 1095	█ 1173	---	---
Phosphorus	ppm	█ 872	█ 1159	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ 18	█ 17	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0090
Unique No: 10724898
Signed: Jonathan Hester
Report Date: 07 Nov 2023



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GRAPHS

